Abſtract of the Premiums offered, in 1800, *by the Society inſtituted at* London *for the Encouragement of Arts, Manufactures, and Commerce.*

London: Printed by JOHN NICHOLS, Red Lion Paſſage, Fleet Street.

To the PUBLICK.

THE chief objects of the SOCIETY are to promote the Arts, Manufactures, and Commerce, of this kingdom, by giving rewards for all ſuch uſeful Inventions, Diſcoveries, or Improvements (though not mentioned in this book), as tend to that purpoſe; and, in purſuance of this plan, the SOCIETY have already expended full FORTY THOUSAND POUNDS advanced by the voluntary ſubſcriptions of their members, and legacies bequeathed.

The manner in which this money has been diſtributed may be ſeen by applying to the Secretary or other officers of the SOCIETY at their houſe in the *Adelphi*. The Regiſter of the Premiums and Bounties they have given will ſhew the very great advantages which the Publick have derived from this inſtitution.

In order ſtill further to promote the laudable views of this SOCIETY, it may be neceſſary to explain the mode by which its members continue to be elected.

Peers of the Realm or Lords of Parliament are, on their being propoſed at any meeting of the SOCIETY, immediately ballotted for; and the name, with the addition and place of abode, of every other perſon propoſing to become a member, is to be delivered to the Secretary, who is to read the ſame, and properly inſert the name in a liſt which is to be hung up in the SOCIETY's room until the next meeting; at which time ſuch perſons ſhall be ballotted for; and, if two thirds of the members then voting ballot in his favour, he ſhall be deemed a *perpetual member* upon payment of *Twenty Guineas* at one payment, or a *ſubſcribing member* upon payment of any ſum not leſs than *Two Guineas* annually.

Every member is entitled to vote and be concerned in all the tranſactions of the SOCIETY, and to attend and vote at the ſeveral Committees.

The meetings of the SOCIETY are held every *Wedneſday*, at ſix o'clock in the evening, from the fourth *Wedneſday* in *October* to the firſt *Wedneſday* in *June*. The ſeveral Committees meet on other evenings in the week during the ſeſſion.

The ſeveral candidates and claimants, to whom the SOCIETY ſhall adjudge Premiums or Bounties during their next ſeſſion, are to attend at the SOCIETY's Office, in the *Adelphi*, on the laſt Tueſday in *May*, 1801, at 12 o'clock at noon, to receive the ſame.

GENERAL CONDITIONS.

Notwithſtanding the SOCIETY reſerve to themſelves the power of giving in all caſes ſuch part only of any Premium as the Performance ſhall be adjudged to deſerve, or of withholding the whole if there be no merit; yet the candidates may be aſſured the SOCIETY will always judge liberally of their ſeveral claims.

It is required that the matters for which Premiums are offered be delivered in without names, or any intimation to whom they belong; that each particular thing be marked in what manner each claimant thinks fit, ſuch claimant ſending with it a paper ſealed up, having on the outſide a correſponding mark, and on the inſide the claimant's name and addreſs; and all candidates are to take notice, that no claim for a Premium will be attended to unleſs the conditions of the advertiſement are fully complied with. The candidates in the Polite Arts are to ſignify their ages, and whether their drawings be Originals or Copies.

All Models of Machines, which obtain Premiums or Bounties, ſhall be the property of the SOCIETY; and, where a Premium or Bounty is given for any machine, a perfect model thereof ſhall be given to the SOCIETY.

All the Premiums of this SOCIETY are deſigned for Great Britain, unleſs expreſsly mentioned to the contrary.

No perſon ſhall receive any Premium, Bounty, or Encouragement, from the SOCIETY for any matter for which he has obtained, or purpoſes to obtain, a patent.

A candidate for a Premium, or a perſon on applying for a Bounty, being detected in any diſingenuous method to impoſe on the SOCIETY, ſhall forfeit ſuch Premium or Bounty, and be deemed incapable of obtaining any for the future.

The performances which each year obtain Premiums or Bounties are to remain with the SOCIETY until after the public diſtribution of rewards.

No member of this SOCIETY ſhall be a candidate for, or entitled to receive, any Premium, Bounty, or Reward whatſoever, except the Honorary Medal of the SOCIETY.

Where certificates are required to be produced in claim of Premiums, they ſhould be expreſſed as nearly as poſſible in the words of the reſpective advertiſements, and ſhould not be from the candidate ſolely but from ſome other perſon or perſons who have a poſitive knowledge of the facts certified.

Where Premiums or Bounties are obtained in conſequence of ſpecimens produced, the SOCIETY mean to retain ſuch part of thoſe ſpecimens as they may judge neceſſary, making a reaſonable allowance for the ſame.

No

No candidates ſhall be preſent at any meetings of the SOCIETY or Committees, or admitted at the SOCIETY's rooms, after they have delivered in their claims, until ſuch claims are adjudged, unleſs ſummoned by the Committee.

N. B. Any information or advice, that may forward the deſigns of this SOCIETY for the public good, will be duly conſidered, if communicated by letter, addreſſed to the SOCIETY, and directed to Mr. *Charles Taylor*, the Secretary, at the SOCIETY's office, in the *Adelphi Buildings, London.*

The eighteenth Volume of the Tranſactions of the SOCIETY will ſpeedily be publiſhed, with the particulars of each Premium; *and it is recommended to all candidates to conſult that book*, in order that miſtakes in making their claims may be avoided.

Adelphi, April 17, 1800. By Order, CHARLES TAYLOR, Secretary.

PREMIUMS FOR PLANTING AND HUSBANDRY.

CLASS.

1. ACORNS. For having ſet ten acres, between October, 1799, and April, 1800; the gold medal.

2. For five acres; the ſilver medal.

Certificates to be produced on the firſt Tueſday in December, 1800.

9. RAISING OAKS. Not fewer than five thouſand, from plants, or acorns; the gold medal.

10. For three thouſand; the ſilver medal.

Certificates to be produced on the firſt Tueſday in January, 1801.

15. RAISING OAKS. For aſcertaining the comparative merits of the different modes of raiſing Oaks for timber; the gold medal.

Accounts to be produced on the firſt Tueſday in November, 1800.

17. SPANISH CHESNUTS. For ſetting ſix acres between the 1ſt of October, 1799, and April, 1800, with or without ſeeds or cuttings of other trees; the gold medal.

18. For four acres; the ſilver medal.

Certificates to be produced on the firſt Tueſday in November, 1800.

25. ENGLISH ELM. For eight thouſand, planted between June, 1798, and June, 1799; the gold medal.

26. For five thouſand; the ſilver medal.

Certificates to be delivered on the firſt Tueſday in April, 1801.

33. LARCH. For planting, from June, 1797, to June, 1798, five thouſand, the gold medal.

35. For three thouſand; the ſilver medal.

Certificates to be delivered on the laſt Tueſday in December, 1800.

43. SILVER FIR. For not fewer than two thouſand, planted between June, 1796, and June, 1797; the gold medal.

44. For one thouſand; the ſilver medal.

Certificates and *accounts* to be delivered on the laſt Tueſday in December, 1800.

49. OSIERS. For not leſs than five acres, planted between the 1ſt of October, 1799, and the 1ſt of May, 1800, not fewer than twelve thouſand on each acre; the gold medal, or thirty guineas.

50. For three acres; the ſilver medal, or ten guineas.

Certificates to be produced on the laſt Tueſday in November, 1800.

53. ALDER. For having planted, in the year 1797, at leaſt three thouſand; the gold medal.

Certificates to be produced on the laſt Tueſday in December, 1800.

57. ASH. For ſix acres planted in 1796; the gold medal.

58. For not leſs than four acres; the ſilver medal.

Certificates to be produced on the laſt Tueſday in December, 1800.

67. TIMBER-TREES. For having incloſed, and planted or ſown, ten acres with Foreſt trees for timber, between October, 1796, and May, 1798; the gold medal.

Certificates to be produced on the firſt Tueſday in November, 1800.

71. PLANTING ORCHARDS. For planting an Orchard in the moſt judicious manner, not leſs than four acres, after the month of Auguſt, 1797; the gold medal, or fifty guineas.

72. For the next in merit; the ſilver medal, or thirty guineas.

Certificates to be produced on the firſt Tueſday in November, 1816.

73. ORCHARDS. For the Orchard which, at the end of three years after planting, ſhall ſhew the greateſt promiſe of ſucceſs; the gold medal, or thirty guineas.

Certificates to be produced on the firſt Tueſday in November, 1800.

77. SECURING PLANTATIONS OF TIMBER. For ſatisfactory accounts of ſecuring Timber-trees from hares, cattle, &c.; the ſilver medal, or twenty guineas.

Accounts and *certificates* to be produced on the firſt Tueſday in November, 1800.

☞ *The candidates for planting all kinds of trees are to certify, that the reſpective*

positive plantations are properly fenced and secured, and particularly to state the condition the plants were in at the time of signing such certificates.

Any information which the candidates for the foregoing premiums may chuse to communicate, relative to the methods made use of in forming the plantations, or promoting the growth of the several trees, or any other observations that may have occurred on the subject, will be thankfully received.

79. PREVENTING BLIGHTS. For discovering the best method of preventing blights on fruit-trees; the gold medal, or thirty guineas.

The *accounts* and *certificates* to be delivered on the second Tuesday in November, 1800.

82. TAKING OFF THE ILL EFFECTS OF BLIGHTS. For discovering a method of taking off the ill effects of blights on fruit-trees, verified by experiments; the gold medal, or thirty guineas.

Accounts and *certificates* to be delivered on the first Tuesday in February, 1801.

83. COMPARATIVE CULTURE OF WHEAT. For the best set of experiments made on eight acres, to determine the comparative advantages of cultivating wheat, by sowing broad-cast or drilling; the gold medal, or silver medal and twenty guineas.

The *accounts* to be produced on the first Tuesday in February, 1801.

85. COMPARATIVE CULTURE OF WHEAT. For the best set of experiments made on eight acres, to determine the comparative advantage of cultivating wheat, by broad-cast or dibbling; the gold medal, or silver medal and thirty guineas.

The *accounts* to be produced on the first Tuesday in February, 1801.

87. BEANS AND WHEAT. For planting or drilling, between December, 1798, and April, 1799, ten acres, with beans, and for sowing the same land with wheat in the year 1799; twenty guineas.

Certificates to be produced on the first Tuesday in November, 1800.

88. SPRING WHEAT. For cultivating, in 1800, the greatest quantity of spring wheat, not less than ten acres; the silver medal, or twenty guineas.

The *accounts* and *certificates* to be delivered on or before the second Tuesday in December, 1800.

91. BEANS. For discovering and cultivating, in 1800, either by the drill or dibbling method, on not less than five acres, a species of horse-beans, or tick-beans, that will ripen their seeds before the 1st of August; the silver medal, or twenty guineas.

The *accounts* and *certificates* to be delivered on or before the first Tuesday in December, 1800.

93. TURNEPS. For experiments made on six acres, to determine the comparative advantages of the drill or broad-cast method in the cultivation of turneps; the gold medal, or silver medal and ten guineas.

To be delivered on the third Tuesday in March, 1801.

94. VEGETABLE FOOD. For the best account of vegetable food, that will most increase the milk in mares, cows, and ewes, in March and April; the gold medal, or silver medal and ten guineas.

Certificates to be produced on the second Tuesday in November, 1800.

95. CULTIVATING ROOTS AND HERBAGE FOR FEEDING SHEEP AND BLACK CATTLE. For experiments made on two acres of land, between Michaelmas, 1799, and May, 1800, to ascertain which of the following plants can be secured for winter fodder to the greatest advantage, viz.

Turnep-rooted cabbage, carrots, turnep-cabbage, parsneps, turneps, potatoes.

The *accounts* and *certificates* to be produced on the first Tuesday in November, 1800; the gold medal.

96. PARSNEPS. For cultivating, in 1800, not less than five acres with Parsneps, for feeding cattle or sheep; the gold medal, or thirty guineas.

Certificates and *accounts* to be delivered on the second Tuesday in February, 1801.

97. MAKING MEADOW HAY IN WET WEATHER. For discovering the best method of making meadow hay in wet weather; the gold medal, or thirty guineas.

Certificates and *accounts* of the making the produce of six acres of land to be produced on the first Tuesday in January, 1801.

98. HARVESTING CORN IN WET WEATHER. For discovering the best method of harvesting not less than four acres of corn in wet weather; the gold medal, or thirty guineas.

Certificates, *accounts*, and *samples*, to be produced on the first Tuesday in January, 1801.

99. CULTIVATING THE TRUE RHUBARB. For raising, in the year 1800, not less than two thousand plants of the true rhubarb; the gold medal, or thirty guineas.

Certificates

Certificates to be produced on the ſecond Tueſday in February, 1801.

100. ASCERTAINING THE COMPONENT PARTS OF ARABLE LAND. For the moſt ſatisfactory experiments, to aſcertain the due proportion of the ſeveral component parts of arable land, by an accurate analyſis of it; the gold medal, or fifty guineas.

The *accounts* to be produced on the laſt Tueſday in November, 1800.

103. IMPROVING LAND LYING WASTE. For a method of improving 50 acres of ſoils lying waſte or uncultivated; the gold medal, or ſilver medal and twenty guineas.

104. For 25 acres; the ſilver medal and ten guineas.

The *accounts* to be produced on the ſecond Tueſday in December, 1800.

109. MANURES. For the beſt ſet of experiments to aſcertain the comparative advantage of ſoot, coal-aſhes, wood-aſhes, lime, gypſum, night-ſoil, or any other fit article; the gold medal, or ſilver medal and twenty guineas.

The *accounts* to be produced on the laſt Tueſday in February, 1801.

111. IMPROVING WASTE MOORS. For the improvement of not leſs than one hundred acres of waſte moor-land; the gold medal.

112. For not leſs than fifty acres; the ſilver medal, or twenty guineas.

113. For not leſs than twenty-five acres; the ſilver medal, or ten guineas.

Certificates to be produced on the firſt Tueſday in February, 1801.

123. GAINING LAND FROM THE SEA. For an account of the beſt method of gaining from the ſea not leſs than twenty acres of land; the gold medal.

Certificates to be produced on the firſt Tueſday in October, 1800.

127. MACHINE FOR DIBBLING WHEAT. For the beſt machine for dibbling wheat; the ſilver medal, or twenty guineas.

The *machine*, with *certificates*, to be produced on the ſecond Tueſday in January, 1801.

128. MACHINE TO REAP OR MOW CORN. For a machine to reap or mow grain, by which it may be done cheaper than by any method now practiſed; the gold medal, or thirty guineas.

The machine, with *certificates*, to be produced on the ſecond Tueſday in December, 1800.

129. DESTROYING THE GRUB OF THE COCKCHAFER. For diſcovering a method of deſtroying the grub of the cockchafer; the gold medal, or thirty guineas.

The *accounts* to be delivered on the firſt Tueſday in January, 1801.

130. DESTROYING THE WIRE-WORM. For diſcovering a method of deſtroying the wire-worm; the gold medal, or thirty guineas.

The *accounts* to be delivered on the firſt Tueſday in January, 1801.

131. DESTROYING THE FLY ON HOPS. For diſcovering an eaſy method of deſtroying the fly on hops; the gold medal, or thirty guineas.

Certificates to be delivered on the firſt Tueſday in February, 1801.

133. CURE OF THE ROT IN SHEEP. For diſcovering an effectual cure, verified by experiments; the gold medal, or fifty guineas.

Accounts of the cauſe and prevention, with *certificates*, to be produced on the firſt Tueſday in February, 1801.

134. PREVENTING AND CURING THE ILL EFFECTS OF THE FLY ON SHEEP. For diſcovering a method of preventing and curing thoſe effects; the ſilver medal, or twenty guineas.

Certificates and *accounts* to be produced on the firſt Tueſday in December, 1800.

135. PROTECTING SHEEP. For protecting in bad ſeaſons in the year 1800, by means of hovels or ſheds, not fewer than five hundred ſheep; the ſilver medal, or twenty guineas.

Accounts of the advantages, and *certificates* of the utility, to be produced on the firſt Tueſday in March, 1801.

137. IMPROVING THE CONDITION OF THE LABOURING POOR. To the perſon who, in the year 1800, ſhall build the greateſt number of cottages, to accommodate the labouring poor, and apportion two acres of land to each cottage; the gold medal.

140. To the perſon who, in the year 1800, ſhall apportion not leſs than two acres of land to each cottage already built upon the eſtate; the gold medal.

The *accounts* and *certificates* to be delivered on the firſt Tueſday in February, 1801.

PREMIUMS FOR DISCOVERIES AND IMPROVEMENTS IN CHEMISTRY, DYING, AND MINERALOGY.

143. BARILLA. For half a ton of merchantable barilla, made from any plant raiſed in Great Britain; the gold medal, or thirty guineas.

Twenty-eight pounds, with a *certificate*,

cate, to be produced on the firſt Tueſday in January, 1801.

144. PRESERVING SEEDS OF VEGETABLES. For a method of preſerving the ſeeds of plants fit for vegetation; the gold medal, or thirty guineas.

To be communicated on the firſt Tueſday in December, 1800.

146. SEPARATING THE SUGAR FROM TREACLE. For diſcovering a cheap method of ſeparating the ſaccharine ſubſtance of treacle in a ſolid form, not leſs than one hundred weight; the gold medal, or fifty guineas.

Certificates and *accounts*, with ſamples, to be produced on the firſt Tueſday in February, 1801.

147. PRESERVING FRESH WATER SWEET. For the beſt account, verified by trials, of a method of preſerving freſh water during long voyages; the gold medal, or fifty guineas.

Accounts, and deſcriptions of the methods made uſe of, with thirty gallons of the water, to be produced on the laſt Tueſday in December, 1800.

149. PURIFYING BRACKISH OR CORRUPTED WATER. For diſcovering the beſt method of purifying brackiſh or corrupted water, ſo as to fit it for the uſe of families; the ſilver medal, or fifteen guineas.

Certificates, and an *account* of the method uſed, to be produced on the ſecond Tueſday in February, 1801.

150. DESTROYING SMOKE. For an account of a method of deſtroying the ſmoke of fires belonging to large works; the gold medal, or thirty guineas.

To be produced on the firſt Tueſday in January, 1801.

152. CONDENSING SMOKE. For the beſt method of condenſing and collecting the ſmoke of ſteam-engines, &c.; the gold medal, or fifty guineas.

Accounts, *certificates*, and *ſpecimens*, to be produced on the firſt Tueſday in December, 1800.

154. CANDLES. For diſcovering a method of making candles of reſin, or any other ſubſtance at a price inferior to tallow, fit for common uſe; the gold medal, or thirty guineas.

To be delivered on the firſt Tueſday in December, 1800.

155. REFINING WHALE OR SEAL OIL. For diſcloſing a method of purifying oil from glutinous matter; the gold medal, or fifty guineas.

The proceſs to be delivered on the ſecond Tueſday in February, 1801.

157. CLEARING FEATHERS FROM THEIR OIL. For diſcovering a method of clearing gooſe feathers from their oil, ſuperior to any known; the gold medal, or forty guineas.

Accounts and 40lb. of feathers to be produced on the firſt Tueſday in February, 1801.

158. SUBSTITUTE FOR OR PREPARATION OF YEAST. For diſcovering a ſubſtitute for, or preparation of, yeaſt, that may be preſerved ſix months; the gold medal, or thirty guineas.

Specimens to be produced on the laſt Tueſday in November, 1800.

159. PROOF SPIRIT. For making, in 1800, not leſs than one hundred gallons of Proof Spirit from articles not the food of man or cattle; the gold medal, or fifty guineas.

Accounts and ten gallons to be produced on the firſt Tueſday in January, 1801.

160. PRESERVING SALTED PROVISIONS. For diſcovering the cheapeſt method of preſerving ſalted proviſions from becoming rancid or ruſty; the gold medal, or thirty guineas.

Accounts and *certificates* to be produced on or before the firſt Tueſday in February, 1801.

162. INCREASING STEAM. For a method of increaſing the quantity or the force of ſteam, in ſteam-engines, with leſs fuel than is now employed; the gold medal, or thirty guineas.

To be communicated on the firſt Tueſday in January, 1801.

163. PREVENTING THE DRY ROT IN TIMBER. For diſcovering the cauſe of the dry rot in timber, and diſcloſing a method of prevention; the gold medal, or thirty guineas.

The *accounts* to be produced on the ſecond Tueſday in December, 1800.

165. FINE BAR-IRON. For making ten tons with coak from coak-pigs, in England or Wales, equal to Swediſh or Ruſſian iron; the gold medal.

One hundred weight, with *certificates*, to be produced on the firſt Tueſday in January, 1801.

166. WHITE LEAD. For diſcovering a method of preparing white lead, in a manner not prejudicial to the workmen; the gold medal, or fifty guineas.

Certificates that a ton has been prepared, and the proceſs, to be produced on the ſecond Tueſday in February, 1801.

167. SUBSTITUTE FOR BASIS OF PAINT. For the beſt ſubſtitute for baſis of paint, equally proper as white lead; the gold medal, or one hundred guineas.

Fifty pounds weight to be produced on the ſecond Tueſday in November, 1800.

169. RED

169. RED PIGMENT. For diſcovering a proceſs for preparing a red pigment, for uſe in oil or water, equal to carmine, and perfectly durable; the gold medal, or thirty guineas.

One pound of the colour, with the proceſs, to be produced on the firſt Tueſday in February, 1801.

170. REFINING BLOCK TIN. For diſcloſing a method of purifying block tin, ſo as to fit it for the purpoſes of grain tin; the gold medal, or fifty guineas.

The proceſs, and one hundred weight of the tin, to be produced on the firſt Tueſday in November, 1800.

172. GLAZING EARTHEN-WARE WITHOUT LEAD. For diſcovering the moſt eaſily fuſible compoſition for glazing ordinary earthen-ware without lead; the gold medal, or thirty guineas.

Specimens and *certificates* to be produced on the firſt Tueſday in February, 1801.

173. PRESERVING IRON FROM RUST. For a cheap compoſition to effectually preſerve wrought iron from ruſt; the gold medal, or fifty guineas.

Accounts and *certificates*, with ten pounds of the compoſition, to be produced on the firſt Tueſday in January, 1801.

176. OPIUM. For preparing, in 1800, not leſs than twenty pounds weight from poppies grown in Great Britain, equal to foreign opium; the gold medal, or fifty guineas.

Five pounds, *certificates*, and *accounts*, to be produced on the laſt Tueſday in February, 1801.

177. For not leſs than ten pounds weight; the ſilver medal, or twenty guineas.

178. SUBSTITUTE FOR TAR. For diſcovering the beſt ſubſtitute for tar, equal to Stockholm tar, and prepared from materials the produce of Great Britain; the gold medal, or one hundred guineas.

One hundred weight, with *certificates*, and the proceſs, to be delivered on the firſt Tueſday in March, 1801.

PREMIUMS FOR PROMOTING THE POLITE ARTS.

180. HONORARY PREMIUMS FOR DRAWINGS. For the beſt drawing by ſons or grandſons of peers or peereſſes of Great Britain or Ireland, to be produced on the firſt Tueſday in March, 1801; the gold medal.

181. For the next in merit; the ſilver medal.

182, 183. The ſame premiums will be given to daughters or grand-daughters of peers or peereſſes of Great Britain or Ireland

184. HONORARY PREMIUMS FOR DRAWINGS. For the beſt drawing of any kind, by young gentlemen under the age of twenty-one.

To be produced on the firſt Tueſday in March, 1801; the gold medal.

185. For the next in merit; the ſilver medal.

186, 187. The ſame premiums will be given for drawings by young ladies.

N.B. Perſons profeſſing any branch of the polite arts, or the ſons or daughters of ſuch perſons, will not be admitted candidates in theſe claſſes.

188. SCULPTURE. For a baſſo-relievo in terra cotta, the ſubject taken from the Iliad of Homer, not fewer than three human figures, and the principal figure not leſs than twelve inches; a ſilver medallion, in conformity to the will of John Stock, of Hampſtead, Eſq.

To be produced on the third Tueſday in February, 1801.

189. DRAWINGS OF OUTLINES. For an outline after a group or caſt, in plaſter, of human figures, by perſons under the age of ſixteen, to be produced on the laſt Tueſday in February, 1801, the greater ſilver pallet.

190. For the next in merit; the leſſer ſilver pallet.

191. DRAWINGS OF LANDSCAPES. For the beſt drawing after Nature, by perſons under twenty-one years of age, to be produced on the third Tueſday in February, 1801, the greater ſilver pallet.

192. For the next in merit; the leſſer ſilver pallet.

193. HISTORICAL DRAWINGS. For the beſt original hiſtorical drawing of five or more human figures, to be produced on the third Tueſday in February, 1801, the gold pallet.

194. For the next in merit; the greater ſilver pallet.

195. SURVEYS OF COUNTIES. For an accurate ſurvey of any county in England or Wales; the gold medal, or fifty guineas.

To be begun after the firſt of June, 1796, and produced on the laſt Tueſday in January, 1801.

198. NATURAL HISTORY. To the author who ſhall publiſh the natural hiſtory of any county in England or Wales; the gold medal, or fifty guineas. The work to be produced on or before the laſt Tueſday in January, 1801.

PREMIUMS FOR ENCOURAGING AND IMPROVING MANUFACTURES.

201. SILK. For ten pounds of ſilk, produced

produced by one perſon in England, in the year 1800; the gold medal.

One pound, with *certificates*, to be delivered to the Society on the firſt Tueſday in January, 1801.

202. For five pounds; the ſilver medal.

203. MACHINE FOR CARDING SILK. For a machine for carding waſte ſilk, to be produced on the firſt Tueſday in November, 1800; the ſilver medal, or twenty guineas.

204. CLOTH FROM HOP-STALKS, OR BINES. For not leſs than thirty yards, twenty-ſeven inches wide, made in Great Britain; the gold medal, or thirty guineas; to be produced on the firſt Tueſday in December, 1800.

205. WICKS FOR CANDLES OR LAMPS. For diſcovering a method of manufacturing hop-ſtalks, or other cheap material, the growth of Great Britain, to ſupply the place of cotton for wicks of candles or lamps; twenty guineas.

Five pounds of the wicks, with *certificates*, to be produced on the ſecond Tueſday in January, 1801.

207. PAPER FROM RAW VEGETABLES. For ten reams of uſeful paper from raw vegetable ſubſtances; twenty guineas.

One ream and *certificates* to be produced on the firſt Tueſday in November, 1800.

208. TAKING PORPOISES. For taking, in the year 1800, the greateſt number, not leſs than thirty, on the coaſt of Great Britain, for the purpoſe of extracting oil from them; thirty pounds.

Certificates of the number ſo taken to be produced to the Society on or before the laſt Tueſday in January, 1801.

209. OIL FROM PORPOISES. For manufacturing the greateſt quantity of oil from porpoiſes taken on the coaſt of Great Britain in the year 1800, not leſs than thirty tons; thirty pounds.

210. For not leſs than fifteen tons; fifteen pounds.

Certificates, and two gallons of the oil, to be produced to the Society on the laſt Tueſday in February, 1801.

PREMIUMS FOR INVENTIONS IN MECHANICKS.

211. TRANSIT INSTRUMENT. For a cheap and portable inſtrument, for the purpoſe of finding the latitudes and longitudes of places, the gold medal, or forty guineas; to be produced on the laſt Tueſday in January, 1801.

212. TAKING WHALES BY THE GUN HARPOON. For the greateſt number, not leſs than three, by one perſon; ten guineas.

Certificates of the taking the whales to be produced on the laſt Tueſday in December, 1800.

213. DRIVING BOLTS INTO SHIPS. For a model of a machine for driving bolts, particularly copper, into ſhips, ſuperior to any now in uſe; the gold medal, or forty guineas.

To be produced on the firſt Tueſday in February, 1801.

214. PARISH OR FAMILY MILL. For the beſt mill for grinding corn for private families or pariſh-poor; the gold medal, or forty guineas.

The mill and *certificates* to be produced on the firſt Tueſday in February, 1801.

215. MACHINE FOR RAISING ORE. To the perſon who ſhall invent a machine and produce a model for raiſing ore, &c. from mines, at a leſs expence than any in uſe; the gold medal, or fifty guineas.

The model, with a *certificate* of a machine being uſed, to be produced on the ſecond Tueſday in February, 1801.

216. MACHINE FOR RAISING WATER. For a machine for raiſing water out of deep wells, ſuperior to any in uſe; the gold medal, or forty guineas.

Certificates and a model to be produced on the firſt Tueſday in February, 1801.

217. MACHINE FOR MAKING BRICKS. For the beſt machine for making bricks ſuperior to any hitherto known; forty guineas.

A model, with *certificates*, and fifty of the bricks made by the machine, to be produced on the firſt Tueſday in March, 1801.

218. BORING ROCKS. For diſcovering a more expeditious method than any in uſe of boring rocks in mines, &c.; the gold medal, or forty guineas.

Certificates and deſcription of the method to be produced on the firſt Tueſday in January, 1801.

219. PREVENTING INJURY TO PASSENGERS. For the beſt method of preventing paſſengers in carriages being injured when the horſes have taken fright; the gold medal, or thirty guineas.

Certificates of the utility of the invention to be produced on the ſecond Tueſday in February, 1801.

220. GUNPOWDER-MILLS. For inventing and perfecting, in the year 1800, a method of conducting gunpowder-mills ſo as to prevent a probability of their blowing up; the gold medal, or one hundred guineas.

Certificates

Certificates and *accounts* to be produced on the first Tuesday in February, 1801.

Any attempts on this subject, though not fully adequate to preventing explosion, will be considered and rewarded according to their merit.

222. MILL STONES. For discovering, in Great Britain, a quarry of stone equal to the French burr, for grinding wheat; the gold medal, or one hundred pounds.

A pair of mill stones, three feet eight inches diameter, with *certificates* that two pair of such mill stones have been used, to be produced to the Society on the first Tuesday in February, 1801.

224. HEATING ROOMS FOR MANUFACTURERS. For inventing and discovering a method of heating rooms, superior to any hitherto known, and at a moderate expence, for the use of painters, japanners, &c. so as to prevent the necessity of iron or copper funnels; the gold medal, or forty guineas.

A model, or drawing, with *certificates*, to be delivered on the first Tuesday in March, 1801.

PREMIUMS OFFERED FOR THE ADVANTAGE OF THE BRITISH COLONIES.

225. NUTMEGS. For ten pounds weight of nutmegs, the growth of his Majesty's dominions in the West Indies, or Africa, the gold medal, or one hundred guineas.

Certificates to be produced on the first Tuesday in December, 1800.

227. CINNAMON. For twenty pounds weight, the growth of the islands in the West Indies, or the settlements in Africa belonging to the crown of Great Britain, imported in 1800, the gold medal, or fifty guineas. Samples and certificates to be produced on the first Tuesday in January, 1801.

228. CLOVES. For twenty pounds weight, the growth of the islands in the West Indies, or settlements in Africa belonging to the Crown of Great Britain, imported in 1800; the gold medal, or fifty guineas.

Samples and *certificates* to be produced on the first Tuesday in January, 1801.

230. BREAD-FRUIT TREE. For a plantation of not less than one hundred bread-fruit trees in any of the colonies of the West Indies, or Africa, subject to the Crown of Great Britain; the gold medal, or thirty guineas.

Accounts and *certificates*, with samples of the fruit, to be produced on the first Tuesday in January, 1801.

233. KALI FOR BARILLA. For cultivating two acres of land in the W. Indies, or Africa, with Spanish Kali for making barilla; the gold medal, or thirty guineas.

234. For one acre, the silver medal, or fifteen guineas.

Certificates, with samples, to be produced on the second Tuesday in November, 1800.

239. DESTROYING THE INSECT CALLED THE BORER. For discovering an effectual method of destroying the insect called, in the W. India islands or Africa, the Borer, so destructive to the sugar-cane; the gold medal, or fifty guineas.

The discovery to be ascertained, and delivered, with *certificates*, to the Society on the first Tuesday in January, 1801.

242. BOTANIC GARDEN. For inclosing and cultivating five acres in the Bahama islands as a botanic garden; the gold medal, or one hundred guineas.

Certificates to be produced on or before the first Tuesday in January, 1801.

PREMIUMS OFFERED FOR THE ADVANTAGE OF THE BRITISH SETTLEMENTS IN THE EAST INDIES.

242. BHAUGULPORE COTTON. For one ton imported into the port of London in the year 1800; the gold medal.

N. B. Cloths are made of this cotton of a nankeen colour without dying.

Certificates, signed by the secretary of the Board of Trade of Bengal, with samples, not less than ten pounds, to be produced to the Society on the last Tuesday in February, 1801.

245. ANNATTO. For not less than five hundred weight imported into the port of London from any of the British settlements in the East Indies in the year 1800; the gold medal.

Certificates, signed by the secretary of the Board of Trade of the respective settlement, that it is the produce of that settlement, with samples, not less than ten pounds, to be produced to the Society on or before the last Tuesday in February, 1801.

248. TRUE COCHINEAL. For not less than five hundred weight imported into the port of London from any of the British settlements in the East Indies in the year 1800; the gold medal.

Certificates, signed by the secretary of the Board of Trade of the respective settlement, that it is the produce of that settlement, with samples, not less than ten pounds, to be produced to the Society on or before the last Tuesday in February, 1801.

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